922.03 FITTINGS. Fittings for the pavement edge drain systems, including, but not limited to end seals, splices, outlets, and shunts shall conform to the manufacturer's recommendations and shall be of sufficient strength to withstand construction handling and permanent loading. All fittings shall be as approved by the Engineer.

922.04 OUTLET PIPE. Pipe for outlets shall be 6 in. minimum diameter and shall conform to Section 905.

SECTION 923 — SLURRY SEAL

923.01 AGGREGATES. Aggregates shall be crushed stone, compatible with the emulsion and shall conform to Section 901.

923.02 MINERAL FILLER. Refer to Section 901.

923.03 EMULSIFIED ASPHALT. Emulsified asphalt shall conform to M 208, Grade CSS-1h, except that the cement mixing test is waived.

Emulsified asphalt shall not separate before placement of SS or LMSS.

923.04 LATEX MODIFIED EMULSION. The latex modifier and other emulsifiers shall be milled into the asphalt cement. The emulsified asphalt shall be modified by the addition of 3.0 ± 0.4 percent latex solids by weight of the asphalt. The latex modifier shall be an unvulcanized styrene butadiene rubber (SBR) or 100 percent natural latex in liquid form. The manufacturer shall furnish certification as specified in TC-1.02 showing actual test results in conformance with these Specifications.

923.05 MIX DESIGN APPROVAL. Mix design data shall be submitted to the Engineer for approval at least three weeks in advance of the paving operation. The mix design shall list the ingredients and their proportions as well as the gradation of the proposed aggregate.

The SBR latex modifier shall conform to the following:

TEST PROPERTY	SPECIFICATION LIMITS
Styrene butadiene Ratio	24:76 ± 1.5
Solids Content, % min	60
pH, max	6.2
Weight Per Gallon, Wet Basis @ 25 C, lb min Dry Basis @ 25 C, lb min	 7.9 4.5

Latex modified emulsion CSS-1h shall conform to M 208 modified as follows:

The 100 percent natural latex shall be a high ammonia natural latex conforming to D 1076, Type I.

The mix design report shall show test results conforming to the following:

TEST PROPERTY	SPECIFICATION LIMITS
MSMT 403, Mixing Test, minutes min	2
MSMT 403, Setting Time, minutes max	30
MSMT 403, Water Resistance	Slight Discoloration
MSMT 403, Wet Track Abrasion, g/ft^2 max	75
International Slurry Seal Association (ISSA) TB 139, Set Time Test, 30 minutes, kg/cm min	12

The percent of residual asphalt, based on the dry aggregate weight, shall be between 8.0 and 12.5 for Type II Mix and 7.0 and 11.0 for Type III Mix, each having a control tolerance of ± 1.0 percent.

The Contractor shall submit sufficient material for testing the mix design whenever corroborating information is required by the Engineer.

RESIDUE REQUIREMENTS	
TEST PROPERTY	**SPECIFICATION LIMITS**
Penetration @ 25 C, min	30
Ductility @ 25 C, min @ 4 C, min	150 100
R and B Softening Point, F, min	140
Cement Mixing Test	Waived

The latex modified emulsion, after standing undisturbed for 24 hours, shall be a uniform color throughout.

923.06 MIX DESIGN. The mix design shall conform to the following:

The stability shall be a minimum of 1800 lb and the flow shall be 0.06 to 0.16 in. when tested as specified in T 245, Modified (modification permits air drying of the mixture at 70 to 75 F for a minimum of 24 hours, followed by placement in a 140 F oven and drying to a constant weight prior to reheating and placing in molds).

SECTION 924 THRU 949 — RESERVED

SECTION 950 — TRAFFIC MATERIALS

950.01 PRECAST CONCRETE TRAFFIC BARRIER. Precast concrete traffic barrier shall conform to the Contract Documents. Welded wire fabric shall conform to 908.05.

950.02 RESERVED.

950.03 REFLECTORIZATION OF SIGNS AND CHANNELIZING DEVICES. Unless otherwise specified in the Contract Documents, retroreflective sheeting for signs shall conform to 950.03.02. Retroreflective sheeting for channelizing devices shall conform to 950.03.02 or 950.03.06.

950.03.01 Type II Retroreflective Sheeting. When specified in the Contract Documents, engineering grade retroreflective sheeting shall conform to D 4956, Type II.